(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 7 February 2002 (07.02.2002)

PCT

(10) International Publication Number WO 02/10408 A1

(51) International Patent Classification7: C12N 15/63

(21) International Application Number: PCT/KR01/01295

(22) International Filing Date: 30 July 2001 (30.07.2001)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2000/44142

31 July 2000 (31 07.2000) KR

(71) Applicant (for all designated States except US): SAMYANG GENEX CORPORATION [KR/KR], 263, Younji-Dong, Chongno-Ku, Seoul 110-740 (KR).

(72) Inventors; and

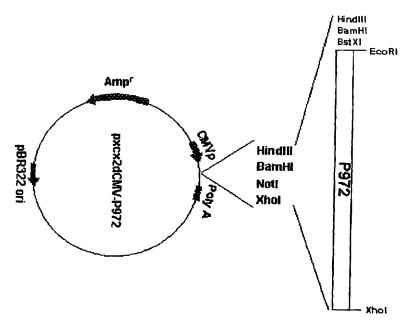
(75) Inventors/Applicants (for US only): KIM, Dae-Gun [KR/KR], Samyang Genex Research Institute, 63-2,

Hwaam-Dong, Yusong-Ku, Tacjon 305-348 (KR). CHO, Won-Kyung [KR/KR], 137-303 Hanbit Apt., Oun-Dong, Yusong-Ku, Tacjon 305-333 (KR). JUNG, Neon-Cheol [KR/KR], Samyang Genex Research Institute, 63-2, Hwaam-Dong, Yusong-Ku, Tacjon 305-348 (KR). SEONG, Young-Rim [KR/KR]; 114-10, Oun-Dong, Yusong-Ku, Tacjon 305-333 (KR). IM, Dong-Soo [KR/KR], 107-604 Hanul Apt., Shinsung-Dong, Yusong-Ku, Tacjon 305-345 (KR). HONG, Seung-Suh [KR/KR], 109-404 Chounggunarae Apt., 462-2, Junmin-Dong, Yusong-Ku, Tacjon 305-390 (KR). LEE, Hyun-Soo [KR/KR]; Jewoohouse 101, 550-18, Banpo-Dong, Seocho-Ku, Seoul 137-040 (KR).

- (74) Agent: PARK, Jang-Won; Jewoo Building, 5th Floor, 200, Nonhyun-Dong, Kangnam-Ku, Scoul 135-010 (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB. BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,

[Continued on next page]

<mark>(54) Title:</mark> EXPRESSION VECTOR CODING P972 GENE FOR CANCER THERAPY AND ADENOVIRUS PRODUCING THE SAME



(57) Abstract: The present invention relates to a vector comprising P972 (also referred to as Gadd45γ, CR6 or OIG37) gene known as a gene producing a cell growth-inhibiting protein for the treatment of cancers, an recombinant adenovirus that encodes P972 gene in the cell, a method of producing the above adenovirus and a method for the treatment of cancers by using the above vector or adenovirus. The recombinant adenovirus of the present invention can be used in the treatment of various cancers including cervical cancer, breast cancerand colon cancer.



2/10408 A